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Vol. 2, No. 11.

May 1944.

BOOK NOTES

THE AMERICAN LAND, by W. R. Van Dersal. Oxford, 1943. 282.12 V28.

Here is a story about the American land and how it is used--the land in the beginning, now, and new land patterns pointing to tomorrow's land picture. There are chapters on grains and other crops on the land; the great family of legumes; orchards, berry patches, and vegetables on a large scale; land for livestock, forests and woodlands, wildlife and recreation. It is the hope of the author that this book will help the American people to understand what they see in their land--that it will give to the great patterns of this land a living meaning. The excellent illustrations are from the Department of Agriculture.

FOOD-BORNE INFECTIONS AND INTOXICATIONS, by Fred W. Tanner. Twin City, 1933.
391 T152 .

An attempt has been made in this book to present the present information on food-borne infections and intoxications as indicated in the literature. Numerous references are given at the bottom of the pages. The chapter headings include: Food hygiene; Metals in foods and their possible relation to illness; Relation of certain plant products to illness in man; Relation of animals and animal products to illness; Food allergy. Sensitization to foods; Eberthella Typhi in foods; The Salmonella group infection and poisoning; Alleged relation of the proteus group to food poisoning; Mycobacterium tuberculosis in foods; Relation of miscellaneous organisms to food infection and intoxication; Relation of putrefaction of foods to illness; Botulism.

MICROBIOLOGY OF MEATS, by L. B. Jensen. Garrard, 1942. 448.2 J452.

A book dealing with the industrial microbiology of meat foods and containing chapters entitled: Some effects of sodium nitrate on bacteria in meat; Gaseous fermentation in meat products by the genus Bacillus; Bacteriology of green discolorations in meats; Action of microorganisms on fats; A study of ham souring; Microbiology of beef; Bacteriology of sausage; Microbiology of bacon; Control of microorganisms; Bacteriology of spices, salt, sugar, paper, and wood; A summary of food poisoning of bacterial origin.

THE MICROSCOPE AND ITS USE, by F. J. Munoz and H. A. Charipper. Tudor, 1943.
440 M92

This book was written to fill the definite need for a small, practical guide to the use of the microscope. It is written in clear, non-technical language and has suitable illustrations and diagrams where necessary. Actual examples of the use of the microscope in the biological sciences, metallurgy, geology, ballistics, etc. have incorporated in the text. A chapter is devoted to the practical use and application of accessories. There are comprehensive glossary, table of con-

tents and index.

CELLULOSE CHEMISTRY, by Mark Plunguian. Chemical Pub., 1943. 387.1 P74.

This book is designed primarily to meet the requirements of noncellulose chemists for a brief and up-to-date introduction to the chemistry of cellulose. An effort had been made to achieve a comprehensive outline of modern cellulose chemistry through a concentration of pertinent detail.

THE GENETICS OF COTTON, by S. C. Harland. Jonathan Cape, 1939. 72 H22A .

The first third of this book deals with the taxonomy and cytology of the cotton plant. The remainder of the book is devoted to genetics including discussion of plant, leaf, flower, boll, lint, seed, physiological, and chemical characters of both Old and New World cottons; their resistance to insects and diseases; linkage relations; mutations; comparative genetics of, evolutionary history of, and interspecific hybridization within the genus *Gossypium*.

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* Please be sure to send a periodical to the next person on the *
* list, not back to the library. Lately many periodicals have *
* been coming back to the library with the list only partially *
* exhausted. This wastes time. Even at best, the periodicals *
* are quite late by the time they reach the man at the end of *
* the list. Your cooperation will be appreciated. *

SELECTED BOOKS AND BULLETINS

Agricultural Engineering

"Farm Building Repair," by J. C. Wooley. Missouri agr. expt. sta. Cir. No. 279.
September 1943. 275.29 M693(c) 279.

The repair problems considered are: foundation failures, spreading of walls in grain storage buildings, mechanical damage to siding, sagging roof, metal roofing construction, failure in ventilation, failure in bracing.

"High-Lift Power Buck Rake," by H. B. Cox. Oklahoma agr. expt. sta. Bul. No. B-280. March 1944. 100 Ok4(b) 280.

"Homemade Fertilizer Spreaders," by E. K. Rambo. Arkansas ext. ser. EP No 6.
March 1944. 275.29 Ar4E 6.

Includes building plans.

"Labor Saving Devices for the Farm," by J. C. Russel. N. D. ext. ser. Cir. 180.
June 1943. 275.29 N812 180.

One hundred three suggestions including roll-in hay stacker, plow adaptation, hog feeder, baling wire stretcher, post puller, throwing an animal, grain drill seed supply made visible, seed grain treater, garden duster, cleaning silver, making ironing easier.

"Plans for the Construction of Farm and Shop Equipment," by D. C. Laverne and C. T. Thompson. La. State Dept. of Education Bul. No. 485. 1942.

"Saving Gasoline on the Farm," by M. M. Jones. Missouri agr. expt. sta. Cir. No. 282. November 1943. 100 M693(c) 282.
 "Sewage and Garbage Disposal on the Farm," by J. W. Rockey and J. W. Simons. USDA Farmers' Bulletin No. 1950. March 1944. 1 Ag84F 1950.

Agronomy

"Boron in Agriculture." Pacific Coast Borax Company. 1944. 64 64 P11
 Gives the result of boron deficiency in tree, root, forage, field, and vegetable crops and tells how to control the deficiency.
 "Dry-Farming Investigations in North-Eastern New Mexico, 1936-1943," by John Carter. N. M. agr. expt. sta. Bul. No. 312. March 1944. 100 N46S(b) 312
 "Fall and Winter Pastures." Okla. ext. ser. OP-87. 1944. 275.29 Ok410 87
 "Grow Cover Crops This Fall." Tenn. agr. ext. ser. Leaflet No. 6. June 1943. 275.29 T25L 6.
 "Farmer's Handbook." U. S. Steel. 1944. 281 T25
 General farm references including discussions of the four cash income per year plan, how to erect a fence, and how to measure and apply steel roofing and siding. Tables include vegetable planting guide, field seed planting guide, live and dressed weights for cattle and hogs, parasites and diseases of chickens, gestation tables of farm animals, weights and measures.
 "Small Grains for Winter Pasture in Oklahoma," by Wesley Chaffin and Hugo Graumann. Okla. ext. ser. OP-89. 1944. 275.29 Ok410 89

"Soybean Production in the Louisiana-Mississippi Delta Area," F. D. Barlow.
 Tables in this bulletin compare labor required, gross cash value and operating expenses, net return per hour of work and per acre, cost of operating tractor and combine in the production of soybeans, corn, cotton, and oats.

FIELD CROPS MANAGEMENT, by E. N. Fergus and Carsie Hammonds. Lippincott, 1942. 64 F38

"This book is designed to be of use to those engaged in ...producing field crops. All of the very important crops or groups of crops, other than cotton, in this country are discussed, and an abundance of experimental data is presented. ... The discussions are from a national standpoint, making the book adapted to almost any section of the United States. Not only is material in specific crops presented, but the book has chapters on What crops to grow, Principles of plant growth, Selecting and producing seed, Soil in relation to crops, and Tillage."

Cooperatives

"Guide for Post-War Development of Cooperatives." Farm Credit Administration, Special report No. 127. January 1944. 166.2
 "How An REA Cooperative Functions." Rural Electrification Administration.
 "A Real REA Cooperative." " " "
 "Successful Cooperative Cotton Gin Associations in Texas," by W. E. Paulson. Texas agr. expt. sta. Bul. No. 636. July 1943. 100 T31S(b) 636.

A historical sketch of the cooperative gin movement in Texas is included in this bulletin as the means of emphasizing the difficulties and problems which had

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to be mastered before strong and sound cooperative gin associations could be perfected. A detailed analysis is given of four successful cooperative gin associations.

Feeds and Feeding

- "Alfalfa Hay as the Roughage in Cattle-Fattening Rations," by J. H. Knox and P. E. Neale. N. M. agr. expt. sta. Bul. No. 310. December 1943. 100 N46S(b) 310.
- "Alfalfa: Its Place in a Balanced Feed Program." N. C. agr. ext. ser. Bul. No. 21. August 1943. 275.29 N811W 21.
- "Austrian Winter Peas, Crimson Clover, and Vetch." N. C. agr. ext. ser. Bul. No. 24. September 1943. 275.29 N811W 24.
- "The Feeding of Livestock," by A. G. Hogan. Missouri agr. expt. sta. Bul. No. 330. June 1943. 100 M 693(b) 330.
- "Italian Rye Grass: Its Place in a Balanced Feed Program." N. C. agr. ext. ser. Bul. No. 22. 275.29 N811W 22.
- "Making Grass Silage by the Wilting Method," by T. W. Woodward. USDA Leaflet No. 238. 1944. 1 Ag84L 238.
- "The Nutritive Value of Korean Lespedeza Proteins and the Determination of Biological Values of Proteins for Growing Dairy Heifers," by E. W. Swanson and H. A. Herman. Missouri agr. expt. sta. Research Bul. No. 372. August 1943.
- "Single Grains and Grain Mixtures as Supplements to Alfalfa Hay and Silage for Milk Production," by J. R. Dawson and others. USDA Cir. No. 696. February 1944. 1 Ag84C 696.

Study of results of experiments.

- "Small Grains: ...Place in a Balanced Feed Program." N. C. agr. ext. ser. Bul. No. 23. August 1943. 275.29 N811W 23.

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* If more than one person in your office wishes to read a periodical that comes to the office and the three day time limit is too short, send us the names of the other people wishing to read the periodical; we shall include their names on the routing slip, allowing three days for each of them, also.
*
* The same thing applies to a book. If several people wish to read a book sent to a man in the office, send us their names; we shall extend the time accordingly.
*

Forestry

- "Channels of Publication for Articles by Members of the Forest Service." U. S. Forest Service. Nov. 1, 1943. 1.962 L3C36.

Lists magazines with their editors and publishers, subject matter fields, and requirements for papers.

REQUESTS FOR PUBLICATIONS ARE STILL COMING IN WITH NO NAME ON THEM. HAVE YOU FAILED TO RECEIVE A REPORT ON YOUR REQUEST?

HAVE YOU A REFERENCE PROBLEM WITH WHICH WE CAN HELP YOU?

"Coatings for the Prevention of End Checks in Logs and Lumber." Forest Products Laboratory. October 1943. 1.9 F761R.

Discussion of hot and cold coatings giving some formulas, the amounts necessary, and the cost per 100 square feet.

"Fuel Wood and the War," by H. P. Rigdon. Okla. ext. ser. OP-90. 1944. 275.29 Ok410 . 90.

Contents: Fuel wood situation in Oklahoma, Dead trees provide a source of fuel, Timber waste products for fuel, Inferior trees in woodlands as fuel, Average of trees of various diameters necessary to produce one cord of fuel in Oklahoma, Time of year and method of cutting, Drying or curing wood, Using wood for fuel in coal stoves, and Markets and uses.

"The Need for Conservation of our Forests," address by Lyle F. Watts at meeting of Friends of the Land, Chicago, Nov. 12, 1943.

"Outlets for Wood Waste." Forest Products Laboratory. October 1943. 1.9 F761R.

A General statement of actual and potential uses of various kinds of wood waste

"Trees for Victory," by H. P. Rigdon. Oklahoma ext. ser. OP-86. 1944. 275.29

Contents: Windbreaks and the war; Field shelterbelts help produce food, feed, and fiber; Fence posts as weapons; Erosion control as an ally; Fuel wood and victory; Commercial woods products buy bonds; Fire prevention as a defense measure.

"Timber-Connector Joints: Their Strength and Design," by J. A. Scholten. USDA Technical Bul. No. 865. March 1944. 1 Ag84Te 865.

"Prevent Tanbark Deterioration." USDA AWI-82. February 1944.

"Wood as an Engineering Material," by L. J. Markwardt. 1943. 99.79 M34.

In this lecture, Mr. Markwardt discusses wood formation (with good illustrations); the structure of wood itself (with tables giving such information as Results of complete chemical analysis of several species of wood); the mechanics of wood; structural uses; modification of properties (example of tables: properties of various types of fiber building boards); destructive agencies and their control; the future of wood.

Homemaking

"Braided Rugs," by Blanche Zaring. Purdue agr. ext. ser. Bul. No. 301. July 1943.

"Care and Repair of Linens and Bedding," by C. P. Brooks. Vermont ext. ser. Brieflet No. 683. August 1943. 275.29 V59Br 683.

"A Comparative Study of Some Drapery Fabrics Available in 1942 and 1943," by P. E. Keeney. Missouri agr. expt. sta. Research Bul. No. 374. August 1943.

Study of durability and color fastness.

"Conserving Household Textiles," by C. P. Brooks. Ver. ext. ser. Brieflet No. 681

"The Effects of Wartime Measures on Cotton Dress Fabrics," by P. E. Keeney. Missouri agr. expt. sta. Research Bul. No. 375. August 1943. 100 M693(r) 375.

Prices, durability, shrinkage, and color fastness considered.

"Everyday Care of Furniture," by C. P. Brooks. Ver. ext. ser. Brieflet No. 680.

"Household Equipment: Its Care and Simple Repair." Kan. ext. ser. Bul. No. 90.

"Laundering for Conservation," by C. P. Brooks. Ver. ext. ser. Brieflet No. 676.

"Planning the Use of the Family Dollar," by Julia Pond. Mich. ext. ser. Bul. 256.

"Reupholstering at Home." Oklahoma ext. ser. Cir. No. 386.

"Saving and Spending the Family Dollar in Wartime," by C. P. Brooks. Ver. ext. ser. Brieflet No. 689.

HAVE YOU SECURED FORMS AD-245 FROM YOUR SUPPLY CENTER OR FROM THE LIBRARY?

Horticulture

- "Growing Fruit for Family Use," by W. R. Martin and H. G. Swartwout. Missouri agr. ext. ser. Cir. No. 435. Nov. 1941. 275.29 M69C 435.
- "Hot Beds and Cold Frames," by D. C. Mooring. Oklahoma ext. ser. Cir. No. 211.
- "Judging Victory Gardens," by L. A. Somers. Illinois ext. ser. 275.29 I162.
- "Planning, Managing, and Judging Victory Garden Shows and Exhibitions," by L. E. Somers. Illinois ext. ser. 275.29 I162.
- "Production of Carrots," by J. H. Beattie and others. USDA Leaflet No. 125. 1944. On the truck garden scale.
- "Production of Peppers," by J. H. Beattie and others. USDA Leaflet No. 140. 1944. For truck gardens.

Insects

- "Control of Wheat Insects," by F. A. Fenton and F. E. Whitehead. Okla. agr. expt. sta. Bul. B-275. January 1944. 100 Ok4(b) 275.
- DESTRUCTIVE AND USEFUL INSECTS, by C. L. Metcalf and W. P. Flint. McGraw-Hill, 1939. 423 M563.

The first few chapters deal with morphology, anatomy, metamorphosis, orders of insects, and other topics on insects in general. There are chapters on insect control and apparatus for applying insecticides. Then follow chapters on specific insects: those injurious to corn and related crops, to small grains, to legumes, to cotton, to tobacco, to vegetables and truck crops, to fruit trees and bushes, to shade trees and shrubs, to greenhouse plants and flower gardens. There are chapters on household insects and those that attack animals and man. Well illustrated.

- "Garden Insect Control." Arkansas ext. ser. Leaflet No. 53. 1944.
- "A Victory Gardener's Handbook on Insects and Diseases." USDA Miscellaneous Publication No. 525. February 1944.

Soil Conservation

- "Investigations in Erosion Control and Reclamation of Eroded Land at the Blackland Conservation Experiment Station, Temple, Tex., 1931-41," by H. O. Hill and others. USDA Technical Bul. No. 859. January 1944.
- "Preliminary Report on Watershed Studies Near Waco and Garland Texas." SCS-TP-53.

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